

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Lei Shao

Title: MULTIPLE ANTENNA SYSTEMS AND METHODS USING HIGH-THROUGHPUT SPACE-FREQUENCY BLOCK CODES

Docket No.: 884.B52US1

Serial No.: 10/814,113

Filed: March 30, 2004

Due Date: November 14, 2007

Examiner: Khai Tran

Group Art Unit: 2611

MS Issue Fee

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

We are transmitting herewith the following attached items (as indicated with an "X"):

- REQUEST FOR CONSIDERATION OF PREVIOUSLY FILED SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (2 pgs.).
- COPIES of previously filed Supplemental Information Disclosure Statement (2 pgs.), Form 1449 (1 pg.), and electronic receipt of filing (3 pgs.).

If not provided for in a separate paper filed herewith, Please consider this a PETITION FOR EXTENSION OF TIME for sufficient number of months to enter these papers and please charge any additional fees or credit overpayment to Deposit Account No. 19-0743.

SCHWEGMAN, LUNDBERG & WOESSNER, P.A.

Customer Number 21186

By: /



Atty: Gregory J. Gorrie

Reg. No. 36,530

SCHWEGMAN, LUNDBERG & WOESSNER, P.A.

(GENERAL)

S/N 10/814,113

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Lei Shao	Examiner:	Khai Tran
Serial No.:	10/814,113	Group Art Unit:	2611
Filed:	March 30, 2004	Docket:	884.B52US1
Title:	MULTIPLE ANTENNA SYSTEMS AND METHODS USING HIGH-THROUGHPUT SPACE-FREQUENCY BLOCK CODES		

REQUEST FOR CONSIDERATION OF PREVIOUSLY FILED SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

MS Issue Fee
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

In response to the Notice of Allowance mailed August 14, 2007, please note the following:

Supplemental Information Disclosure Statement Not Yet Considered

Applicants filed a Supplemental Information Disclosure Statement and Form 1449 with the U.S. Patent and Trademark Office on August 15, 2007 in connection with the above-identified patent application. To date, Applicants have not received a copy of the Form 1449 marked as considered by the Examiner. Applicants request that a copy of Form 1449 be initialed by the Examiner to indicate consideration of the cited documents, and that the initialed Form 1449 be returned as soon as possible.

Copies of the Supplemental Information Disclosure Statement, Form 1449, and the electronic receipt of the filing, are enclosed for the Examiner's convenience.

REQUEST FOR CONSIDERATION OF PREVIOUSLY FILED SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT **Page 2**

Serial Number: 10/814,113

Dkt: 884.B52US1

Filing Date: March 30, 2004

Title: MULTIPLE ANTENNA SYSTEMS AND METHODS USING HIGH-THROUGHPUT SPACE-FREQUENCY BLOCK CODES

Conclusion

The Examiner is invited to telephone Applicant's attorney at (480) 659-3314 if there are any questions regarding this matter.

If necessary, please charge any additional fees or credit overpayment to Deposit Account No. 19-0743.

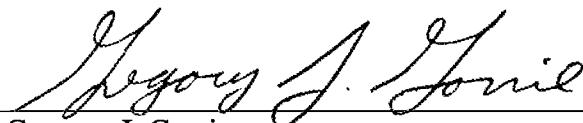
Respectfully submitted,

LEI SHAO

By his Representatives,

SCHWEGMAN, LUNDBERG & WOESSNER, P.A.
P.O. Box 2938
Minneapolis, MN 55402
(480) 659-3314

By /



Gregory J. Gorrie

Reg. No. 36,530

Electronic Acknowledgement Receipt

EFS ID:	2088054
Application Number:	10814113
International Application Number:	
Confirmation Number:	5163
Title of Invention:	MULTIPLE ANTENNA SYSTEMS AND METHODS USING HIGH-THROUGHPUT SPACE-FREQUENCY BLOCK CODES
First Named Inventor/Applicant Name:	Lei Shao
Customer Number:	21186
Filer:	Joseph P. Mehrle/Anne Richards
Filer Authorized By:	Joseph P. Mehrle
Attorney Docket Number:	884.B52US1
Receipt Date:	15-AUG-2007
Filing Date:	30-MAR-2004
Time Stamp:	18:18:34
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment was successfully received in RAM	\$180
RAM confirmation Number	3781
Deposit Account	190743

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.16 and 1.17

File Listing:

Document Number	Document Description	File Name	File Size(Bytes) /Message Digest	Multi Part /.zip	Pages (if appl.)				
1		b52sidsSIGNED.pdf	598219 0d2c5b776dab464c2a63df6296c90b43 6e90e55a	yes	4				
Multipart Description/PDF files in .zip description									
	Document Description		Start	End					
	Miscellaneous Incoming Letter		1	1					
	Information Disclosure Statement (IDS) Filed		2	4					
Warnings:									
Information:									
2	NPL Documents	B52alamouti.pdf	181138 53f317ed239b393ed8879a280b7e92a9 f5372229	no	8				
Warnings:									
Information:									
3	NPL Documents	b52Tarokh.pdf	548528 d41f62dd3819b314fc89ab9ce51a8f907 b036994	no	22				
Warnings:									
Information:									
4	Fee Worksheet (PTO-06)	fee-info.pdf	8228 7fc5d226cf7bedf5a97f29863f6b9ce47 c54cf9	no	2				
Total Files Size (in bytes):					1336113				

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Lei Shao Examiner: Khai Tran
Serial No.: 10/814,113 Group Art Unit: 2611
Filed: March 30, 2004 Docket: 884.B52US1
Title: MULTIPLE ANTENNA SYSTEMS AND METHODS USING HIGH-THROUGHPUT SPACE-FREQUENCY BLOCK CODES

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicant respectfully requests that this Supplemental Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicant requests that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicant with the next official communication.

Pursuant to 37 C.F.R. §1.97(c)(2), Applicants hereby authorize the Commissioner to charge the fee of \$180.00 as set forth in 37 C.F.R. §1.17(p), to Deposit Account No. 19-0743. Please charge any additional fees or credit any overpayment to Deposit Account No. 19-0743.

The Examiner is invited to contact the Applicant's Representative at the below-listed telephone number if there are any questions regarding this communication.

Respectfully submitted,

Lei Shao,

By his Representatives,

SCHWEGMAN, LUNDBERG & WOESSNER, P.A.
P.O. Box 2938
Minneapolis, MN 55402
(480) 659-3314

By / Gregory J. Gorrie /
Gregory J. Gorrie
Reg. No. 36,530

Substitute for form 1449A/PTO	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <small>(Use as many sheets as necessary)</small>	
Complete if Known	
Application Number 10/814,113	
Filing Date March 30, 2004	
First Named Inventor Shao, Lei	
Group Art Unit 2611	
Examiner Name Tran, Khai	
Sheet 1 of 1	
Attorney Docket No: 884.B52US1	

US PATENT DOCUMENTS

Examiner Initials*	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Foreign Document No.	Publication Date	Name of Patentee or Applicant of cited Document	T ²

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		ALAMOUTI, SIAVASH M., "A Simple Transmit Diversity Technique for Wireless Communications", <u>IEEE Journal on Select Areas in Communications</u> , 16(8), (Oct., 1998), 1451-1458	
		TAROKH, VAHID , et al., "Space-Time Codes for High Data Rate Wireless Communication: Performance Criterion and Code Construction", <u>IEEE Transactions on Information Theory</u> , 44(2), (Mar., 1998), 744-765	

EXAMINER

DATE CONSIDERED